

PTO-1449 REPRODUCED

**SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENT
IN AN APPLICATION**

March 15, 2006

(Use several sheets if necessary)

ATTORNEY DOCKET NO.
3518.1012-005

APPLICATION NO.
10/714,594

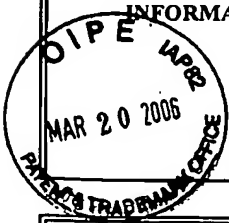
FIRST NAMED INVENTOR
Mohamed Attawia

FILING DATE
November 14, 2003

EXAMINER
Standley, Steven H.

CONFIRMATION NO.
3230

GROUP
1649



U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
SS	AH	4,427,649	01-24-1984	Dingle, <i>et al.</i>
SS	AI	5,095,037	03-10-1992	Iwamitsu, <i>et al.</i>
SS	AJ	5,116,964	05-26-1992	Capon, <i>et al.</i>
SS	AK	5,225,538	07-06-1993	Capon, <i>et al.</i>
SS	AA2	5,231,024	07-27-1993	Moeller, <i>et al.</i>
SS	AB2	5,270,300	12-14-1993	Hunziker
SS	AC2	5,368,841	11-29-1994	Trauner, <i>et al.</i>
SS	AD2	5,447,851	09-05-1995	Beutler, <i>et al.</i>
SS	AE2	5,510,370	04-23-1996	Hock
SS	AF2	5,656,272	08-12-1997	Le, <i>et al.</i>
SS	AG2	5,728,396	03-17-1998	Peery, <i>et al.</i>
SS	AH2	5,833,984	11-10-1998	Eibl, <i>et al.</i>
SS	AI2	5,942,499	08-24-1999	Radomsky
SS	AJ2	5,965,583	09-12-1999	Beers, <i>et al.</i>
SS	AK2	6,277,969	08-21-2001	Le, <i>et al.</i>
SS	AA3	6,284,471	09-04-2001	Le, <i>et al.</i>
SS	AB3	6,294,170	09-25-2001	Boone, <i>et al.</i>
SS	AC3	6,419,944	07-16-2002	Tobinick
SS	AD3	6,541,477	04-01-2003	Goehring, <i>et al.</i>
SS	AE3	6,554,830	04-29-2003	Chappius
SS	AF3	6,590,081	07-08-2003	Zhang
SS	AG3	6,623,472	09-23-2003	Reinecke, <i>et al.</i>
SS	AH3	6,713,246	03-30-2004	Reinecke, <i>et al.</i>
SS	AI3	US 2001/0006948 A1	07-05-2001	Kang, <i>et al.</i>
SS	AJ3	US 2001/0016195 A1	07-05-2001	Tobinick

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
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FOREIGN PATENT DOCUMENTS						
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SS	AN	EP 0 218868 A2	04-22-1987	New York Blood Center, Inc.		
SS	AO	EP 0 288 088 B1	10-26-1988	Teijin Limited		
SS	AP	EP 0 438234 A1	07-24-1991	Kita		
SS	AQ	EP 0 950417 A2	02-15-1999	Pfizer Products, Inc.		
SS	AL2	EP 1 133995 A2	09-19-2001	Synergen, Inc.		
SS	AM2	EP 1 153607 A2	11-14-2001	Dunn		
SS	AN2	WO 01/85179 A2	11-15-2001	Clemson University		
SS	AO2	WO 02/057240 A1	07-25-2002	Ortho McNeil Pharmaceutical, Inc.		
SS	AP2	WO 02/100387 A1	12-19-2002	A+ SCIENCE INVEST AB		
SS	AQ2	WO 03/000190 A2	01-03-2003	DePuy		
SS	AL3	WO 91/02078 A1	02-21-1991	Peptide Technology LTD		
SS	AM3	WO 92/07076 A1	04-30-1992	The Charring Cross Sunley Research Centre		
SS	AN3	WO 92/16553 A1	10-01-1992	New York University and Centocor, Inc.		
SS	AO3	WO 93/16099 A2	08-19-1993	Biopharm Gesellschaft Zur Biotechnologischen Entwicklung Von Pharmaka MBH		
SS	AP3	WO 97/28828 A1	08-14-1997	Amgen Boulder, Inc.		
SS	AQ3	Intentionally Omitted				
SS	AL4	WO 98/24477 A1	06-11-1998	Amgen, Inc.		
SS	AM4	WO 99/45923 A1	09-16-1999	Merck & Co., Inc.		

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
S	AT5	Abstracts of the N. American Spine Society 17 Annual Meeting, Montreal, Canada, October 29 through November 2, 2002, <i>The Spine Journal</i> , 2(5Suppl.): 49S-50S (2002).
S	AUS	Allai, F., <i>et al.</i> , "Increase in Bone Mineral Density of Patients with Spondyloarthropathy Treated With Anti-Tumor Necrosis Factor α ," <i>Ann. Rheum. Dis.</i> , 62:347-349 (2003).
S	AV5	Andonopoulos, A.P., <i>et al.</i> , "Intra-articular Anti-Tumor Necrosis Factor α Antibody in Recalcitrant Arthritis of Behçet's Disease," <i>Clinical and Experimental Rheumatology</i> 21(4 Suppl 30): S-57-S58 (July-August 2003).
S	AW5	Aoki, Y., <i>et al.</i> , "Local Application of Disc-Related Cytokines on Spinal Nerve Roots," <i>Spine</i> , 27(15): 1614-1617 (2002).
S	AX5	Ariga, K., <i>et al.</i> , "Mechanical Stress-Induced Apoptosis of Endplate Chondrocytes in Organ-Cultured Mouse Intervertebral Discs," <i>Spine</i> , 28(14): 1528-1533 (2003).
S	AY5	Ashkenazi, A., <i>et al.</i> , "Protection Against Endotoxic Shock by a Tumor Necrosis Factor Receptor Immunoaderin," <i>Proc. Natl. Acad. Sci. USA</i> , 88, pp. 10535-10539.
S	AZ5	Baker, D., <i>et al.</i> , "Control Established Experimental Allergic Encephalomyelitis by Inhibition of Tumor Necrosis Factor (TNF) Activity Within the Central Nervous System using Monoclonal Antibodies and TNF Receptor-Immunoglobulin Fusion Proteins," <i>Eur. J. Immunol.</i> , 24:2040-2048 (1994)
S	AR6	Biskobing, D. M., "Novel Therapies for Osteoporosis," <i>Expert Opinion Invest. Drugs</i> , 12(4): 611-621 (2003).
S	AS6	Bokarewa, M., <i>et al.</i> , "Local Infusion of Infliximab for the Treatment of Acute Joint Inflammation," <i>Ann. Rheum. Dis.</i> , downloaded from ard.bmjournals.com on 30 November 2005, www.annrheumdis.com 62:783-784 (2003).
S	AT6	Boehm, <i>et al.</i> , "New Inhibitors of p38 Kinase," <i>Exp. Opin. Ther. Patents</i> , 10(1):25-37 (2000).
S	AU6	Braun, J. and Sieper J., "Overview of The Use of The Anti-TNF Agent Infliximab in Chronic Inflammatory Diseases," <i>Expert Opin. Biol. Ther.</i> 3(1):141-168 (2003).
S	AV6	Braun, J., <i>et al.</i> , "Anti-Tumour Necrosis Factor α Therapy for Ankylosing Spondylitis: International Experience," <i>Ann. Rheum. Dis.</i> , 61(Suppl. III):iii51-iii60 (2002).

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
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SS	AW6	Bringman, T.S. <i>et al.</i> , "Monoclonal Antibodies to Human Tumor Necrosis Factors Alpha and Beta: Application for Affinity Purification, Immunoassays, and as Structural Probes," <i>Hybridoma</i> , 6(5):489-507 (1987).
SS	AX6	Brown, K., <i>et al.</i> , "Gelatin/Chondroitin 6-Sulfate Microspheres for the Delivery of Therapeutic Proteins to the Joint," <i>Arthritis. & Rheum.</i> , 41(12):2185-2195 (1998).
SS	AY6	Burke, J.G., <i>et al.</i> , "Intervertebral Discs Which Cause Low Back Pain Secrete High Levels of Proinflammatory Mediators," <i>J. Bone Joint Surg. [Br]</i> 84-B, 196-201 (2001).
SS	AZ6	Butler, D. <i>et al.</i> , "TNF Receptor Fusion Proteins are Effective Inhibitors of TNF-Mediated Cytotoxicity on Human KYM-1D4 Rhabdomyosarcoma Cells," <i>Cytokine</i> , 6(6):616-623 (1994).
SS	AR7	Capon, D. <i>et al.</i> "Designing CD4 Immunoadhesins for AIDS Therapy," <i>Nature</i> , 337:525-531 (1989).
SS	AS7	Cardone, D. A., <i>et al.</i> , "Diagnostic and Therapeutic Injection of the Hip and Knee," <i>Am. Fam. Physician</i> , 67(10): 2147-2152 (2003).
SS	AT7	Chae, H.J. <i>et al.</i> , "The p38 Mitogen-Activated Protein Kinase Pathway Regulates Interleukin-6 Synthesis in Response to Tumor Necrosis Factor in Osteoblasts," <i>Bone</i> , 28(1): 45-53 (2001).
SS	AU7	Cirillo <i>et al.</i> , "The Non-Diaryl Heterocycle Classes of p38 MAP Kinase Inhibitors," <i>Current Topics in Medicinal Chemistry</i> , 2: 1021-1035 (2002).
SS	AV7	Conti, F., <i>et al.</i> , "Successful Treatment With Intraarticular Infliximab for Resistant Knee Monarthritis in a Patient With Spondylarthropathy," <i>Arthritis & Rheumatism</i> , 52(4): 1224-1226 (2005).
SS	AW7	Corcoran, A.E. <i>et al.</i> , "Characterization of Ligand Binding by the Human p55 Tumour-Necrosis-Factor Receptor," <i>Eur. J. Biochem.</i> , 223:831-840 (1994).
SS	AX7	Crandall, C., "Combination Treatment of Osteoporosis: A Clinical Review," <i>J. of Women's Health & Gender-Based Medicine</i> , 11(3):211-224 (2002).
SS	AY7	Daye, J.M., "The Pivotal Role of Interleukin-1 in the Clinical Manifestations of Rheumatoid Arthritis," <i>Rheumatology, Oxford Univeristy Press, London, GB</i> , 42(Suppl 2):ii03-ii10 (2003).
SS	AZ7	DeSantis, A. and Buchman, A., "Current and Emerging Therapies in Osteoporosis," <i>Expert Opin. Pharmacother.</i> , 3(7):835-843 (2002).

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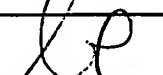
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SS	AR8	Diwan, A. D., <i>et al.</i> , "Current Concepts in Intervertebral Disk Restoration," <i>Tissue Engineering in Orthopedic Surgery</i> , 31(3):453-464 (2000).
SS	AS8	Engelmann, H. <i>et al.</i> , "Two Tumor Necrosis Factor-Binding Proteins Purified From Human Urine," <i>J. Biol. Chem.</i> , 265(3):1531-1536 (1990).
SS	AT8	Ezra, A., and Golomb, G., "Administration Routes and Delivery Systems of Bisphosphonates for the Treatment of Bone Resorption," <i>Adv. Drug Del. Rev.</i> , 42:175-195 (2000).
SS	AU8	Fendly <i>et al.</i> , "Murine Monoclonal Antibodies Defining Neutralizing Epitopes on Tumor Necrosis Factor," <i>Hybridoma</i> , 6:359-370 (1987).
SS	AV8	Gabay, C., "IL-1 Trap," <i>Curr. Opin. Invest. Drugs, Curr. Drugs, London, GB</i> , 4(5):593-597 (2003).
SS	AW8	Goodman, S. <i>et al.</i> , "Effects of Local Infusion of TGF β on Bone Ingrowth in Rabbit Chambers," <i>J. Biomed. Mat. Res. (Appl Biomater)</i> , 53:475-479 (2000).
SS	AX8	Gordon, J. L., <i>et al.</i> , "Metalloproteinase Inhibitors as Therapeutics," <i>Clin. Exp. Rheumatol.</i> , 11(Suppl. 8): S91-S94 (1993).
SS	AY8	Goupille, P., <i>et al.</i> , "Matrix Metalloproteinases The Clue to Intervertebral Disc Degeneration?," <i>Spine</i> , 23(14): 1612-1626 (1998).
SS	AZ8	Hirai, M. <i>et al.</i> , "Production and Characterization of Monoclonal Antibodies to Human Tumor Necrosis Factor," <i>J. Immunol. Meth.</i> , 96:57-62 (1987).
SS	AR9	Hunter, C. J., <i>et al.</i> , "Functional Behaviour of Notochordal Cell Clusters in the Canine Nucleus Pulposus: Cell Communication and Survival," 70, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AS9	Hydrogels, <i>Encyclopedia of Polymer Science and Technology</i> , (Wiley and Sons, 2003).
SS	AT9	Johnson, W.H., <i>et al.</i> , "Collagenase Inhibitors: Their Design and Potential Therapeutic Use," <i>J. Enzyme Inhib.</i> , 2:1-22 (1987).
SS	AU9	Karppinen, J., <i>et al.</i> , "Tumor Necrosis Factor- α Monoclonal Antibody, Infliximab, Used to Manage Severe Sciatica," <i>Spine</i> , 28(8):750-754 (2003).

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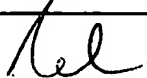
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SS	AV9	Kawakami, M., <i>et al.</i> , "Possible Mechanism of Painful Radiculopathy in Lumbar Disc Herniation," <i>Clin. Orthop.</i> 351:241-251(1998).
SS	AW9	Kimble, R.B. <i>et al.</i> , "Estrogen Deficiency Increases the Ability of Stromal Cells to Support Murine Osteoclastogenesis Via an InterLeukin-1 and Tumor Necrosis Factor-Mediated Stimulation of Macrophage Colony-Stimulating Factor Production," <i>J. Biol. Chem.</i> 271(46):28890-28897 (1996).
SS	AX9	Kimble, R.B. <i>et al.</i> , "The Functional Block of TNF but Not of IL-6 Prevents Bone Loss in Ovariectomized Mice," <i>J. Bone Min. Res.</i> , 12(6):935-941 (1997).
SS	AY9	Koch, H. <i>et al.</i> , "Spontaneous Secretion of Interleukin 1 Receptor Antagonist (IL-1Ra) by Cells Isolated From Herniated Lumbar Discal Tissue After Discectomy," <i>Cytokine</i> , 10(9): 703-705 (1998).
SS	AZ9	Kolls, J. <i>et al.</i> "Prolonged and Effective Blockade of Tumor Necrosis Factor Activity Through Adenovirus-Mediated Gene Transfer," <i>Proc. Natl. Acad. Sci. USA</i> , 91:215-219 (1994).
SS	AR10	LaVan, D. A., <i>et al.</i> , "Small-Scale Systems for <i>in vivo</i> Drug Delivery," <i>Nature, Biotechnology</i> , 21(10):1184-1191 (2003).
SS	AS10	Lee, <i>et al.</i> , "Inhibition of p38 MAP Kinase as a Therapeutic Strategy," <i>Immunopharmacology</i> , 47: 185-201 (2000).
SS	AT10	Lehman, T. J. A., <i>et al.</i> , "Thalidomide Therapy for Recalcitrant Systemic Onset Juvenile Rheumatoid Arthritis," <i>J. Pediatrics</i> , 140(1):125-127 (2002).
SS	AU10	Lesslauer, W., <i>et al.</i> , "Recombinant Soluble Tumor Necrosis Factor Receptor Proteins Protect Mice from Lipopolysaccharide-Induced Lethality," <i>Eur. J. Immunol.</i> , 21:2883-2886 (1991).
SS	AV10	Liang, C.-M., <i>et al.</i> , "Production and Characterization of Monoclonal Antibodies Against Recombinant Human Tumor Necrosis Factor/Cachectin," <i>Biochem. Biophys. Res. Comm.</i> 137(2):847-854 (1986).
SS	AW10	Loetscher, H. <i>et al.</i> , "Molecular Cloning and Expression of the Human 55 kd Tumor Necrosis Factor Receptor," <i>Cell</i> , 61:351-359 (1990).
SS	AX10	Maeda, S. and Kokubun, S., "Changes With Age in Proteoglycan Synthesis in Cells Cultured <i>In Vitro</i> From the Inner and Outer Rabbit Annulus Fibrosus," <i>Spine</i> , 25(2):166-169 (2000).

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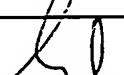
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S	AY10	Meager, A. <i>et al.</i> , "Preparation and Characterization of Monoclonal Antibodies Directed Against Antigenic Determinants of Recombinant Human Tumour Necrosis Factor (rTNF)," <i>Hybridoma</i> , 6(3):305-311 (1987).
S	AZ10	Möller, A. <i>et al.</i> , "Monoclonal Antibodies to Human Tumor Necrosis Factor α : In Vitro and In Vivo Application," <i>Cytokine</i> 2(3):162-169 (1990).
S	AR11	Molloy, T., <i>et al.</i> , "The Roles of Growth Factors in Tendon and Ligament Healing," <i>Sports Med.</i> , 33(5): pp.381-394 (2003).
S	AS11	Müller, R. "Determination of Affinity and Specificity of Anti-Hapten Antibodies by Competitive Radioimmunoassay," <i>Meth. Enzymol.</i> , 92:589-601 (1983).
S	AT11	Nakamura, K. <i>et al.</i> , "Local Application of Basic Fibroblast Growth Factor into the Bone Increases Bone Mass at the Applied Site in Rabbits," <i>Arch. Orthop. Trauma Surg.</i> , 115(6):344-346 (1996).
S	AU11	Nakamura, K. <i>et al.</i> , "Stimulation of Endosteal Bone Formation by Local Intraosseous Application of Basic Fibroblast Growth Factor in Rats," <i>Rev. Rhum. [Engl. Ed.]</i> , 64(2):101-105 (1997).
S	AV11	Nikas, S. N., <i>et al.</i> , "Treatment of Resistant Rheumatoid Arthritis by Intra-Articular Infliximab Injections: A Pilot Study," <i>Ann. Rheum. Dis.</i> , downloaded from ard.bmjournals.com on 2 November 2005, www.annrheumdis.com 63: 102-103 (2004).
S	AW11	Olmarker, K. and Rydevik, B., "Selective Inhibition of Tumor Necrosis Factor- α Prevents Nucleus Pulposus-Induced Thrombus Formation, Intraneural Edema, and Reduction of Nerve Conduction Velocity," <i>Spine</i> , 26(8): 863-869 (2001).
S	AX11	Pacifci, R., "Editorial: Cytokines, Estrogen, and Postmenopausal Osteoporosis-The Second Decade," <i>Endocrinology</i> , 139(6):2659-2661 (1998).
S	AY11	Pargellis, C. <i>et al.</i> , "Inhibition of p38 MAP Kinase by Utilizing a Novel Allosteric Binding Site," <i>Nature Structural Biology</i> , 9(4): 268-272 (2002).
S	AZ11	Pederson, A. W. <i>et al.</i> , "Thermal Assembly of a Biomimetic Mineral/Collagen Composite," <i>Biomaterials</i> , 24:4881-4890 (2003).

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§	AR12	Peppel, K. <i>et al.</i> "A Tumor Necrosis Factor (TNF) Receptor-IgG Heavy Chain Chimeric Protein as a Bivalent Antagonist of TNF Activity," <i>J. Exp. Med.</i> , 174:1483-1489 (1991).
§§	AS12	Rodan, G.A. <i>et al.</i> , "Therapeutic Approaches to Bone Diseases," <i>Science</i> , 289:1508-1514 (2000).
§	AT12	Schall, T. <i>et al.</i> , "Molecular Cloning and Expression of a Receptor for Human Tumor Necrosis Factor," <i>Cell</i> , 61:361-370 (1990).
§	AU12	Schatteman, L., <i>et al.</i> , "Treatment of Refractory Inflammatory Monoarthritis in Ankylosing Spondylitis by Intraarticular Injection of Infliximab," <i>J. Of Rheum.</i> , 33:1, pp. 82-85 (2006).
§§	AV12	Stern, S., <i>et al.</i> , "Human Intervertebral Disc Cell Culture for Disc Disorders," <i>Clin. Orthop.</i> , 419:238-244 (2004).
§§	AW12	Takegami, K., <i>et al.</i> , "Osteogenic Protein-1 Enhances Matrix Replenishment by Intervertebral Disc Cells Previously Exposed to Interleukin-1," <i>Spine</i> , 27(12):1318-1325 (2002).
§	AX12	Tobinick, E.L. and Davoodifar, S., "Perispinal TNF-alpha Inhibition for Discogenic Pain," <i>Swiss Med. Weekly</i> , 133:170-177 (2003).
§	AY12	Tobinick, E.L., "Targeted Etanercept for Discogenic Neck Pain: Uncontrolled, Open-Label Results in Two Adults," <i>Clin. Ther.</i> , 25(4):1211-1218 (2003).
§	AZ12	Wittenberg, R.H., <i>et al.</i> , "In Vitro Release of Prostaglandins and Leukotrienes From Synovial Tissue, Cartilage, and Bone in Degenerative Joint Diseases," <i>Arthritis Rheum.</i> , 36(10):1444-1450 (1993).
§	AR13	Yabuki, S., <i>et al.</i> , "Prevention of Compartment Syndrome in Dorsal Root Ganglia Caused by Exposure to Nucleus Pulposus," <i>Spine</i> , 26(8):870-875 (2001).
§§	AS13	Zhang, C., <i>et al.</i> , "Mitogen-activated Protein (MAP) Kinase Regulates Production of Tumor Necrosis Factor- α and Release of Arachidonic Acid in Mast Cells," <i>J. Biol. Chem.</i> , 272(20): 13397-13402 (1997).
§§	AT13	http://arthritis.com/od/kneetreatments/g/viscosupplement_p.htm , 12-09-2005.
§	AU13	Kozbor, D. and Roder, J.C., "The Production of Monoclonal Antibodies from Human Lymphocytes," <i>Immunology Today</i> , 4(3):72-79 (1983).

EXAMINER 	DATE CONSIDERED 9/1/06
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PTO-1449 REPRODUCED SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN AN APPLICATION March 15, 2006 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 3518.1012-005		APPLICATION NO. 10/714,594	
	FIRST NAMED INVENTOR Mohamed Attawia		FILING DATE November 14, 2003	
	EXAMINER Standley, Steven H.	CONFIRMATION NO. 3230	GROUP 1649	


OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
SS	AV13	Lane, N.E., <i>et al.</i> , "Basic Fibroblast Growth Factor Forms New Trabeculae That Physically Connect with Pre-Existing Trabeculae, and this New Bone is Maintained With an Anti-Resorptive Agent and Enhanced With an Anabolic Agent in an Osteopenic Rat Model," <i>Osteoporos Int</i> , 14: 374-382 (2003).
ST	AW13	Tobinick, E.L., "Targeted Etanercept for Treatment-Refractory Pain Due to Bone Metastasis: Two Case Reports," <i>Clinical Therapeutics</i> , 25(8):2279-2288 (2003).
SS	AX13	Vahle, J.L., <i>et al.</i> , "Skeletal Changes in Rats Given Daily Subcutaneous Injections of Recombinant Human Parathyroid Hormone (1-34) for 2 Years and Relevance to Human Safety," <i>Toxicologic Pathology</i> , 30(3):312-321 (2002).
ST	AY13	Yaffe, A., <i>et al.</i> , "Combined Local Application of Tetracycline and Bisphosphonate Reduces Alveolar Bone Resorption in Rats," <i>J Periodontol</i> , 74(7):1038-1042 (2003).

EXAMINER 	DATE CONSIDERED 9/1/06
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PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION November 14, 2003 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 3518.1012-005	APPLICATION NO.	
	APPLICANTS Mohamed Attawia <i>et al.</i>		
	FILING DATE November 14, 2003	CONFIRMATION NO.	GROUP


U.S. PATENT DOCUMENTS				
EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER	ISSUE DATE / PUBLICATION DATE	NAME
SS	AA	6,340,369 B1	01/22/02	Ferree
SS	AB	6,352,557 B1	03/05/02	Ferree
SS	AC	2003/0069639 A1	04/10/03	Sander <i>et al.</i>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
SS	AR	Alini, M., <i>et al.</i> , "A Biological Approach to Treating Disc Degeneration: Not for Today, but Maybe for Tomorrow," <i>Eur. Spine J.</i> , 11 (Suppl. 2): S215-S220 (2002).
SS	AS	Connolly, J., <i>et al.</i> , "Development of an Osteogenic Bone-Marrow Preparation," <i>The Journal of Bone and Joint Surgery, Inc.</i> , 71-A (5): 684-691 (1989).
SS	AT	Ganey, T. M. and Meisel, H. J., "A Potential Role for Cell-Based Therapeutics in the Treatment of Intervertebral Disc Herniation," <i>Eur. Spine J.</i> , 11 (Suppl. 2): S206-S214 (2002).
SS	AU	Sakai, D., <i>et al.</i> , "Transplantation of Mesenchymal Stem Cells Embedded in Atelocollagen® Gel to the Intervertebral Disc: A Potential Therapeutic Model for Disc Degeneration," <i>Biomaterials</i> , 24: 3531-3541 (2003).
SS	AV	Ohtori, S., <i>et al.</i> , "TNF- α and TNF- α Receptor 1 Upregulation in GLIA and Neurons After Nerve Injury. Studies in Murine DRG and Spinal Cord," 13, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AV	Korhonen, T., <i>et al.</i> , "Efficacy of Infliximab for Disc Herniation-Induced Sciatica One-Year Follow-Up," 14, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AX	Sakai, D., <i>et al.</i> , "Autologous Transplantation of Mesenchymal Stem Cells for Disc Repair," 24, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AY	Le Visage, C., <i>et al.</i> , "Interaction of Human Mesenchymal Stem Cells with Disc Cells: Changes in Biosynthesis of Extracellular Matrix," 25, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).

EXAMINER 	DATE CONSIDERED 9/11/06
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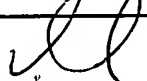
PTO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION November 14, 2003 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 3518.1012-005		APPLICATION NO.	
	APPLICANTS Mohamed Attawia <i>et al.</i>			
	FILING DATE November 14, 2003		CONFIRMATION NO.	GROUP

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
SS	AZ	Risbud, M. V., <i>et al.</i> , "Mesenchymal Stem Cells Respond to Their Microenvironment <i>In Vitro</i> to Assume Nucleus Pulposus-Like Phenotype," 26, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AR2	Richardson, S., <i>et al.</i> , "Human Bone Marrow Mesenchymal Stromal Cells as a Source of Chondrocytes for Treatment of Intervertebral Disc Degeneration," 27, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AS2	Ahn, N. U., <i>et al.</i> , "Effect of Nutrient Concentration and OP-1 on the Metabolism of Intervertebral Disc: <i>In Vitro</i> Organ Culture Study," 28, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AT2	Kwon, U-H., <i>et al.</i> , "Dexamethsone Stimulates Cellular Proliferation While Downregulates Matrix Synthesis in Intervertebral Disc Cells," 29, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AU2	Li, J., <i>et al.</i> , "The Effects of Bone Morphogenetic Protein 2 (BMP-2) and Cartilage-Derived Morphogenetic Protein 2 (CDMP-2) on Aggrecan Gene Expression in Chondrocytes," 30, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AV2	Yoon, S. T., <i>et al.</i> , "LMP-1 Upregulates Proteoglycan Synthesis in Intervertebral Disc Cells Through a BMP Mediated Process," 31, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AW2	Cornefjord, M., <i>et al.</i> , "Cerebrospinal Fluid Biomarkers in Experimental Spinal Nerve Root Injury," 38, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AX2	Takada, T., <i>et al.</i> , "IL-6 Production was Upregulated by Interaction Between Disc Tissue and Macrophages," 41, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AY2	Inui, Y., <i>et al.</i> , "Fas-Ligand Expression on Nucleus Pulposus Cells Begins in Developing Embryo," 42, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AZ2	Sobajima, S., <i>et al.</i> , "Stem Cell Therapy for Degenerative Disc Disease: An In-Vitro Feasibility Study," 43, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).

EXAMINER 	DATE CONSIDERED 9/1/06
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
ETO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION November 14, 2003 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 3518.1012-005		APPLICATION NO.	
	APPLICANTS Mohamed Attawia <i>et al.</i>			
	FILING DATE November 14, 2003		CONFIRMATION NO.	GROUP

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
SS	AR3	Imai, Y., <i>et al.</i> , "The Quantification of Cytokine-Induced Matrix Catabolism in Tissue Engineered Intervertebral Discs," 67, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AS3	Hunter, C. J., <i>et al.</i> , "Functional Behavior of Notochordal Cell Clusters in the Canine Nucleus Pulposus: Cell Communication and Survival," 70, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AT3	Tsuji, T., <i>et al.</i> , "Age-Related Changes in M-RNA Expression of Various Regulatory Factors in Rabbit Intervertebral Disc," 81, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AU3	Miyamoto, H., <i>et al.</i> , "The Effect of Mechanical Stress on the Production of Inflammatory Agents by Disc Cells," 110, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AV3	Arai, I., <i>et al.</i> , "Pretreatment with Loxoprofen Sodium, 6-OHDA or Anti TNF-Alpha Antibody Reduce Fos-Like Immunoreactivity in Rat Experimental Lumber Disc Herniation," 111, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AW3	Edwards, S. L., <i>et al.</i> , "Radiographic Assessment of Posterolateral Spine Fusion With and Without Platelet Rich Plasma," 117, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AX3	Xie, X., <i>et al.</i> , "Treatment of Spondylodiscitis Intravenous Versus Percutaneous Intradiscal Applications of Antibiotics: An Experimental Study in Rabbits," 120, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AY3	Frain, J., <i>et al.</i> , "Use of cDNA Microarrays to Investigate Cytokine Expression in Intervertebral Disc Degeneration," 126, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AZ3	Hashizume, H., <i>et al.</i> , "Role of IL-8, MCP-1 and PH in Neuropathic Pain Enhanced by Degenerative Nucleus Pulposus," 127, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AR4	Lotz, J. C., <i>et al.</i> , "Cytokines in Normal, Degenerated, and Nucleoplasty-Treated Porcine Discs," 157, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).

EXAMINER 	DATE CONSIDERED 9/11/06
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ETO-1449 REPRODUCED INFORMATION DISCLOSURE CITATION IN AN APPLICATION November 14, 2003 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 3518.1012-005		APPLICATION NO.	
	APPLICANTS Mohamed Attawia <i>et al.</i>			
	FILING DATE November 14, 2003		CONFIRMATION NO.	GROUP

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
SS	AS4	Okuma, M., <i>et al.</i> , "Rotary Cell Culture System Stimulates Annulus Fibrosus Cell Proliferation but Suppresses Proteoglycan Metabolism," 164, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AT4	Burke, J. G., <i>et al.</i> , "Human Nucleus Pulposus Secretes Transforming Growth Factor Beta-1 and Basic Fibroblast Growth Factor," 189, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AU4	Kato, H., <i>et al.</i> , "The Effect of IL-1 on the Rabbit Intervertebral Disc In Vivo," 199, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AV4	Imai, Y., <i>et al.</i> , "Effect of Recombinant Human Osteogenic Protein-1 on Extracellular Matrix Metabolism by Human Annulus Fibrosus and Nucleus Pulposus Cells," 205, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AW4	Lee, C. S., <i>et al.</i> , "A Single Period of Hyperphysiologic Stretch Induces IL-6, TGF-beta and Cell Proliferation in Anulus Fibrosus Cells," 215, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AX4	Le Maitre, C. L., <i>et al.</i> , "Response of Human Intervertebral Disc Cells to IL-1," 216, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AY4	Le Maitre, C. L., <i>et al.</i> , "Expression of the IL-1 Family in Human Intervertebral Disc," 217, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AZ4	Weiler, C., <i>et al.</i> , "Expression of TNF- α in Autopsy and Biopsy Specimens of Intervertebral Discs of Various Age and Degeneration," 233, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AR5	Ohtori, S., <i>et al.</i> , "TNF- α -Deficient Mice Have Fewer Macrophages in Injured Nerve and Reduced Glial Activation in DRG and Spinal Cord," 250, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).
SS	AS5	Igarashi, A., <i>et al.</i> , "Inflammatory Cytokines Release From Facet Joint Tissue in Degenerative Lumbar Disorders," 262, <i>Abstracts of the 30th Annual Meeting of the International Society for the Study of the Lumbar Spine</i> , Vancouver, Canada (May 2003).

EXAMINER 	DATE CONSIDERED 9/11/06
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